

a1 propagated human intervertebral disc cells, said disc cells being obtained from a monolayer human intervertebral disc cell culture prepared by a method comprising the steps of:

- a) providing a minced human intervertebral disc tissue explant comprising human intervertebral disc cells; and
  - b) culturing said minced explant under conditions to propagate and form a monolayer of human intervertebral disc cells, wherein the human intervertebral disc cells of said monolayer can be isolated and further propagated upon passaging.
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Cancel Claim 12.

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a2 14. (Once Amended). A therapeutic composition for use in treating human disc diseases comprising an implantation carrier in admixture with *in vitro* propagated human intervertebral disc cells, said disc cells being obtained from a three-dimensional human intervertebral disc cell culture prepared by a method comprising the steps of:

- a) providing a minced human intervertebral disc tissue explant comprising human intervertebral disc cells;
  - b) culturing said minced explant under conditions to propagate and form a monolayer of human intervertebral disc cells, wherein the human intervertebral disc cells of said monolayer can be isolated and further propagated upon passaging;
  - c) isolating the human intervertebral disc cells from said monolayer;
  - d) seeding the isolated cells in a hydrogel carrier material such that the isolated cells are dispersed and distributed in the carrier material forming a three-dimensional structure; and
  - e) culturing said dispersed and distributed cells in the three-dimensional structure.
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Cancel Claims 16 and 17.